

Name _____ Period _____ Date _____

R.4 Polynomials – Review

Tell whether or not the expression is a polynomial. If it is a polynomial, name the coefficient and give the degree of the monomial.

Monomial	Yes or No	Coefficients	Degree
$9x^2 + 5x^{-1} - 7$			
$2x^2 + \sqrt{6}x - 1$			
$\frac{x^2 + 9}{x + 2}$			
$5x^4 - 9x^2 + \sqrt{2}$			

Write each sum or difference as a polynomial in standard form.

$(15x - 7) + (4x + 15)$	$(7x + 13) - (15x - 7)$
$(6x^2 - 5x + 12) + (2x^2 - 7x - 5)$	$(7x^2 - 12x + 5) - (13x^2 + 5x - 2)$
$(9x^3 + 7x - 6) + (2x^3 - 9x^2 + 4x)$	$(-9x^3 - 2x^2 - 11x) - (7x^3 - 9x^2 + 8)$
$(5x^2 - 11x) + (4x^3 + 13) - (5x^2 - 7x)$	$(9x - 5) - (12x + 8) + (4x + 5)$